

Material Safety Data Sheet

Product Name:	Emergency Phone
	INFOTRAC: 1-800-535-5053
ANVIL 10 + 10 ULV	General Phone: 630-894-2000
	EPA Reg. Number:
	Effective Date: 04/13/98
	Product Code: 11604
	CLARKE MOSQUITO CONTROL PRODUCTS INC.
	ROSELLE, IL 60172

1. INGREDIENTS:

SUMITHRIN® [3-Phenoxybenzyl- (1RS, 3RS; 1RS, 3SR) 2, 2- dimethyl-3-(2-methylprop-2-enyl) cyclopropane-carboxylate]	CAS# 026002-80-2	10.00%
Piperonyl Butoxide [Alpha-(2-(1- Butoxyethoxy)-4,5- Methylenedioxy-2-propyltoluene)]	CAS # 000051-03-6	10.00%
Glycol Ethers	CAS# None	.40
White Mineral Oil (Supplier Recommended TWA/PEL)	CAS# 064742-55-8	40-78
Aromatic Hydrocarbon	CAS# 064742-56-9	
	CAS# 064742-94-5	1-15

PEL = Permissible Exposure Limits
TLV = Threshold Limit Value

TWA = Time Weighted Average (8 hr)
STEL = Short Term Exposure Limit (15 min.)

2. HEALTH HAZARD DATA:

Poetntial Health Effects: Emergency Overview

Human: Harmful if absorbed through the skin. Do not induce vomiting because of aspiration pneumonia hazard. Avoid contact with skin, eyes or clothing. In case of contact, flush with plenty of water. Wash with soap and water after use. Obtain medical attention if irritation persists. Avoid contamination of food and feedstuffs.

Eye: CAUTION. Can cause temporary irritation, tearing and blurred vision.

Skin Contact: CAUTION. Can cause a burning sensation on more sensitive areas (face, eyes, mouth). Prolonged or repeated exposure can cause irritation and reddening of the skin, possibly progressing into dermatitis.

Ingestion: CAUTION. Can cause stomach irritation, resulting in nausea, cramps and vomiting. Excessive ingestion can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.

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Inhalation: CAUTION. Excessive inhalation can cause nasal and respiratory irritation.

Chronic Effects: None known

Safety Ecological: Do not use or store near heat or open flame.

3. FIRST AID:

Eyes: Immediately flush with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.

Skin: Immediately flush affected area with large amounts of water. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, get medical attention.

Ingestion: Do not induce vomiting because of aspiration pneumonia hazard. Call a physician or poison control center.

Inhalation: Remove affected person to fresh air. Give oxygen, if necessary. If breathing has stopped, administer artificial respiration and get medical attention immediately.

Note to Physician: None

4. FIRE AND EXPLOSION HAZARD DATA:

FLAMMABLE PROPERTIES:

Flash Point: +200 °F

Method Used: Tag Closed Cup.

This product is classified as a combustible liquid.

Flammable Limits:

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Lower Flammable Limit: Not established

Upper Flammable Limit: Not established

Autoignition Temperature: Not established

Hazardous Combustion Products:

Extinguishing Media: Foam, carbon dioxide, or dry chemical

Fire Fighting Instructions: Treat as a oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream. Contain the run-off, if possible, for proper disposal.

5. ACCIDENTAL RELEASE MEASURES:

Small Spill: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

Large Spill: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

Waste Disposal

Method: Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.

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6. HANDLING AND STORAGE

HANDLING: Wear rubber gloves. Wear an OSHA-approved safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not required when handling this product. Do not contaminate water, feed by storage, handling or disposal. Read and observe all precautions and instructions on the label.

STORAGE: Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, ignition sources and strong oxidizers. Emptied containers may retain product residues.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Exposure Limits: Not established by OSHA or ACGIH

Engineering Controls: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

Respiratory Protection: NIOSH approved organic vapor respirator.

Skin Protection: Applicators and handlers should wear coveralls over normal clothing, chemical resistant gloves, such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton. Chemical-resistant footwear plus socks: Chemical resistant apron when cleaning equipment, mixing, or loading.

Eye Protection: Wear an OSHA-approved safety glasses, goggles or face shield.

8. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear with a light yellow tinge.

ODOR: Pungent aromatic odor similar to the smell of mothballs.

PHYSICAL STATE: Liquid

VAPOR PRESSURE: Not established

VAPOR DENSITY: Not established

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BOILING POINT:	Not established
MELTING POINT:	Not applicable
SOLUBILITY IN WATER:	Emulsifiable
SPECIFIC GRAVITY @ 20°C:	0.884
COLOR, (GARDENER):	1.0
Ph:	Not applicable
VISCOSITY:	22 cps @ 23° C
REFRACTIVE INDEX @ 25°C:	1.4803

9. STABILITY AND REACTIVITY:

Chemical Stability:	Stable
Incompatibility:	Strong acidic or alkaline materials
Hazardous Decomposition Products:	Not applicable
Hazardous Polymerization:	Will not occur

10. TOXICOLOGICAL INFORMATION:

Eye: Primary eye irritation (rabbit): The test article, when administered as supplied, produced a conjunctival irritation in 6/6 albino rabbit eyes. No conjunctival irritation was observed in 4/6 animals at 24 hours and in 6/6 animals at 48 hours. No iritis or corneal opacity was noted during the 7-day observation period.

Skin: Primary skin irritation (rabbit): Irritation Index = 0.04
Dermal Sensitization (guinea pig): Based on a comparison between the test article animal challenge scores and the naïve animal challenge scores, the test article, when applied dermally as supplied, is not a dermal sensitizer in albino guinea pigs under the study conditions utilized.

Acute Dermal LD 50 (rabbit): > 2.0 g/kg

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Ingestion: Acute Oral LD 50 (rat): > 5.0 g/kg
Inhalation: Acute Inhalation LD 50 (rat): 4.57 mg/l

11. ENVIRONMENTAL HAZARDS:

Do not contaminate untreated water by cleaning of equipment. Cleaning of equipment or disposal of wastes must be done in a manner that avoids contamination of bodies of water or wetlands. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

12. DISPOSAL CONSIDERATIONS:

RCRA hazardous waste:

Ingredient:

None

RCRA ID: Cercla Rq-Value

Disposal Method: Do not contaminate water when disposing of equipment wash waters. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not mix with other waste materials.

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13. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) Information This product is regulated as a Marine Pollutant according to the Department of Transportation in bulk quantities (greater than 119 gallons) only:

Proper shipping name:	Environmentally Hazardous Substances, Liquid, N.O.S., Marine Pollutant (d- Phenothrin)
Hazard class:	9
Identification Number (UN or NA):	UN 3082
Packing group:	111

International Transportation Regulations:

ICAO/IATA Description:	Not considered hazardous by IATA Regulations for transportation via air.
IMO Description (IMDG Code):	Environmentally Hazardous Substances, Liquid, N.O.S., 9, UN3082, 111, Marine Pollutant (D-Phenothrin)

14. REGULATORY INFORMATION

U.S. Federal Regulations:

SARA Title III:

Section 302:
Section 313;

Not listed

This product contains the following toxic chemicals of the subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-know Act of 1986 and of 40 CFR 372.

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CAS #:	CHEMICAL NAME:	% BY WEIGHT
000051-03-6	Piperonyl Butoxide	10.00
000113-34-5	Glycol Ethers	0.40

State Regulations:

Volatile Organic Compounds (VOC): This product contains less than 10% VOCs.

15. OTHER INFORMATION

This information herein is given faith, but no warranty, express or implied, is made. Consult Clarke Mosquito Control Products, Inc. for further information.